

What is claimed is:

1. A method of generating a pulsed undersea weapon, said method comprising the steps of:

filling a chamber with a fluid to a predetermined level;

injecting fuel into the chamber adjacent the fluid;

igniting the fuel to generate a combustion gas within the chamber creating a pressure within the chamber by said combustion gas;

ejecting by said created pressure at least a portion of the fluid from a nozzle in fluid communication with the chamber to an undersea environment wherein the ejected fluid forms a jet in the undersea environment;

removing at least a portion of said combustion gas from the chamber; and

repeating to a predetermined amount and subsequent to the removal step, the steps of said method thereby increasing the force of said previously ejected jet as a pulsed undersea weapon.

2. The method in accordance with claim 1 wherein the step of removing said portion of said combustion gas further includes powering a pump with said combustion gas.

3. The method in accordance with claim 1 wherein said step of removing said portion of said combustion gas further includes powering a pump with said combustion gas when the fluid in said chamber reaches a predetermined level.

4. The method in accordance with claim 1 wherein said step of injecting the fuel into said chamber includes injecting the fuel such that the pressure in said chamber is substantially maintained during said ejecting step.

5. The method in accordance with claim 1 wherein said step of filling said chamber with the fluid includes mixing the fluid with a particulate.

6. The method in accordance with claim 5 wherein the step of removing said portion of said combustion gas further includes powering a pump with said combustion gas.

7. The method in accordance with claim 5 wherein said step of removing said portion of said combustion gas further includes powering a pump with said combustion gas when the fluid in said chamber reaches a predetermined level.

8. The method in accordance with claim 5 wherein said step of injecting the fuel into said chamber includes injecting the fuel such that the pressure in said chamber is substantially maintained during said ejecting step.

9. An assembly for producing a pulsed jet as a weapon for an undersea environment, said assembly comprising:

a containment chamber in fluid communication with a source of fluid and a source of fuel;

an igniter within said containment chamber for forming a pressurized combustion gas within said containment chamber by igniting the fuel within said containment chamber thereby pressurizing the fluid;

a nozzle in fluid communication with said containment chamber, with said nozzle suitable as an egress to the pressurized fluid such that the pressurized fluid emitting from said nozzle forms a cavitating jet downstream of said egress and within the undersea environment; and

an exhaust passageway in fluid communication with said containment chamber, said exhaust passageway capable of the removing varying amounts of the combustion gas from said containment chamber.

10. The assembly in accordance with claim 9 further comprising a controller capable of controlling a constant rate of fuel ignition and a flow rate of the fuel from the fuel source such that a substantial pressure of the pressurized combustion gas is maintained.

11. The assembly in accordance with claim 10 further comprising a container for a particulate, said container in fluid communication with the containment chamber thereby allowing the particulate to be combined with the fluid.

12. The assembly in accordance with claim 11 further comprising:

a first valve positioned at said containment chamber, said first valve capable of regulating an amount of the fluid entering said chamber;

a second valve positioned at said chamber, said second valve capable of regulating an amount of the fuel entering said chamber; and

a third valve positioned at said chamber, said third valve capable of regulating an amount of the combustion gas exiting said chamber.

13. The assembly in accordance with claim 12 further comprising a controller capable of controlling said first, second and third valves.

14. The assembly in accordance with claim 13 said assembly further comprising a pump in fluid connection from the fluid source to said chamber, said pump powerable by the combustion gas removed from said chamber.

15. A system for producing a cavitating jet in an underwater environment, said system comprising:

a fluid container;

a fluid source in fluid communication with said fluid container;

a fuel source in fluid communication with said fluid container;

a means for combusting fuel from said fuel source to generate a pressure within said container acting directly on the fluid communicated to said container;

an exhaust passageway from said container; and

a nozzle in fluid communication with said container,

wherein the fluid pressurized by said combusting means

is forced through and from said nozzle as said  
cavitating jet.